

ABSTRACT5 Hydraulic twin clutch for a transmission with two transmission input shafts

The invention relates to a hydraulic twin clutch for a transmission with two transmission input shafts, preferably for a power-shift transmission in motor vehicles, with concentric arrangement of the two transmission input shafts, a
10 driven clutch housing, two hydraulically actuated clutches with friction disks and annular piston-cylinder units, the first clutch connecting the clutch housing selectably to the first transmission input shaft and the second clutch connecting the clutch housing selectably to the second transmission input shaft. It is distinguished by the fact that the two clutches are arranged adjacent one
15 another, separated by a clutch web firmly connected to the clutch housing, and the two piston-cylinder units provided for the actuation of the clutch are likewise arranged adjacent one another and separated by the clutch web, between the clutches and the transmission input shafts, on a smaller diameter than the clutches. The essential advantages are compact construction combined with
20 high torque capacity and the possibility of achieving complete compensation of the centrifugal-force-dependent pressures in the working chambers through the provision of a compensating chamber.